

Specifications — CrossPoint 450 Plus 64 Series

Video

Routing	64 x 64, 64 x 48, 64 x 32, 48 x 64, 48 x 48, 48 x 32, 32 x 48, or 32 x 64 matrix
Gain	Unity
Bandwidth.....	450 MHz (-3 dB), fully loaded
0 - 10 MHz.....	No more than +0.1 dB to -0.1 dB
0 - 130 MHz.....	No more than +1.0 dB to -1.0 dB
Crosstalk.....	-80 dB @ 1 MHz, -62 dB @ 10 MHz, -52 dB @ 30 MHz
Switching speed	200 ns (max.)

Video input

Number/signal type.....	32, 48, or 64 RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video
Connectors	32, 48, or 64 BNC female
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	Analog: 0.5 V to 2.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency.....	15 kHz to 150 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss	<-30 dB @ 5 MHz
DC offset (max. allowable).....	1.5 V

Video output

Number/signal type.....	32, 48, or 64 RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video
Connectors	32, 48, or 64 BNC female
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0 V to 2.0 Vp-p (follows input)
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz
DC offset	±5 mV with input at 0 offset
Switching type	Triple-Action™

Sync

Input type	RGBHV, RGBS, RGsB, RsGsBs
Output type.....	RGBHV, RGBS, RGsB, RsGsBs (follows input)
Input level	0.5 V to 5.0 Vp-p, 4.0 Vp-p normal
Output level	AGC to TTL: 4.0 V to 5.0 Vp-p, unterminated
Input impedance	Inputs 1 to 16: 75 or 510 ohms, switchable Inputs 17 to 32, 48, or 64: 510 ohms
Output impedance	75 ohms
Max. propagation delay	30 ns
Max. rise/fall time	4 ns
Polarity.....	Positive or negative (follows input)

Audio — See MAV Plus 64 Series audio models

Audio input — See MAV Plus 64 Series audio models

Audio output — See MAV Plus 64 Series audio models

Control/remote — switcher

Serial control port.....	1 RS-232 or RS-422, 9-pin female D connector (rear panel) 1 RS-232-only 2.5 mm phone jack (front panel)
Baud rate and protocol	
9-pin D connector.....	9600 (default), 19200, 38400, 115200 baud (adjustable); 8 data bits, 1 stop bit, no parity
2.5 mm phone jack	9600 baud; 8 data bits, 1 stop bit, no parity
Serial control pin configurations	
9-pin D connector.....	RS-232: 2 = TX, 3 = RX, 5 = GND RS-422: 2 = TX-, 3 = RX-, 5 = GND, 7 = RX+, 8 = Tx+
2.5 mm phone jack	Tip = TX, ring = Rx, sleeve = GND
Ethernet control port.....	1 RJ-45 female connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol.....	ARP, DHCP, ICMP (ping), TCP/IP, Telnet, HTTP
Program control.....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet

General

Power	100 VAC to 240 VAC, 50/60 Hz, internal, primary and redundant (64 or 48) x (32, 48, or 64) wideband: 110 watts at 115 VAC, 60 Hz 32 x (48 or 64) wideband: 50 watts at 115 VAC, 60 Hz (64 x 64) sync: 65 watts at 115 VAC, 60 Hz
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NOTE *A redundant power supply is standard.*

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, vents on right and left sides
Rack mount	Yes, with included parts
Enclosure type	Metal
Enclosure dimensions.....	10.5" H x 17.0" W x 14.1" D (6U high, full rack wide) 26.7 cm H x 43.2 cm W x 35.8 cm D
Product weight per BME	
32 x 48 through 64 x 64 Series wideband video BMEs	18.0 lbs (8.2 kg)
32 x 48 through 64 x 64 Series sync BMEs	17.0 lbs (7.7 kg)
Shipping weight per BME	
32 x 48 through 64 x 64 Series wideband video BMEs	30 lbs (14 kg)
32 x 48 through 64 x 64 Series sync BMEs	29 lbs (13 kg)
DIM weight, international, per BME	44 lbs (20 kg)

NOTE *An RGBHV system is shipped as 5 BMEs in 5 cartons.*

Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliances	
Safety.....	CE, CUL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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